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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/782,694	02/19/2004	Mark J. Mayer	GLOZ 2 00184	4601
27885	7590	07/22/2005	EXAMINER	
FAY, SHARPE, FAGAN, MINNICH & MCKEE, LLP 1100 SUPERIOR AVENUE, SEVENTH FLOOR CLEVELAND, OH 44114			TON, ANABEL	
			ART UNIT	PAPER NUMBER
			2875	

DATE MAILED: 07/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/782,694

Applicant(s)

MAYER, MARK J.

Examiner

Anabel M. Ton

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3, 6-8, 11-16, 18 and 20 is/are rejected.
- 7) ☒ Claim(s) 4, 5, 9, 10, 17 and 19 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>02/04</u> . | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3,6-8,11-16,18,20 are rejected under 35 U.S.C. 102(b) as being anticipated by Shoniger et al (5,136,483).

3. Shoniger discloses A reflector comprising a sidewall defining a perimeter surrounding an interior region (13); and a plurality of intersecting curved reflective surfaces (16,17) disposed in the interior region each curved reflective surface defining an off-axis reflector segment (16) having a focus disposed at the perimeter and oriented to reflect light emanating from its focus out a reflector aperture defined by the sidewall (fig 3); the curved reflective surfaces are parabolic reflective surfaces, each parabolic reflective surface defining an off-axis parabolic reflector segment(fig 3); the perimeter is generally circular (fig 1) ;the sidewall comprises a thermally conductive material providing heat-sinking for associated light emitting elements disposed at the foci of the off-axis reflector segments (19, fig 3); each curved reflective surface is disposed along a portion of the perimeter.(fig 3), each curved reflective surface defining an off-axis reflector segment has its focus disposed at a portion other than the portion of the perimeter along which the curved reflective surface is disposed (in the case of an elliptical reflector, which Shoniger also discloses (col. 3 lines 54-66) the elliptical

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reflector would inherently provide a second focus disposed at a portion other than the portion of the perimeter alone which the curved reflective surface is disposed since elliptical reflectors inherently have 2 foci).

- A generally concave reflector including a plurality of off axis reflector segments (17, 16), and a plurality of light emitting elements corresponding to a plurality of off-axis reflector segments each light emitting element being disposed at a focus of a corresponding off-axis reflector segments and arranged to illuminate that segment focus of a corresponding off-axis reflector segment and arranged to illuminate that segment. (Col. 3 lines 54-66, fig 3); each light emitting element is disposed near an outer perimeter of the generally concave reflector (figs1, 3); each light emitting element is disposed near an outer perimeter of the generally concave reflector distal from its corresponding off-axis reflector segment (figs 1 and 3); each light emitting element is disposed across the generally concave reflector from its corresponding off axis reflector segment (Figs 1 and 3); the generally concave reflector further includes: a sidewall surrounding the plurality of off-axis reflector segments(16), the plurality of light emitting elements being disposed on an interior of the sidewall(fig 3, 14).

A lamp comprising: a reflector including a plurality of off-axis reflector segments (16) each having a focus at a perimeter of the reflector (col. 3 lines 54-67); and a plurality of light emitting elements disposed at the foci of the off-axis reflector segments (14); the off-axis reflector segments are selected from a group consisting of an off axis parabolic reflector segment

***Allowable Subject Matter***

4. Claims 4,5,9,10,17,19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. The following is a statement of reasons for the indication of allowable subject matter: The prior art cited does not teach the following: The reflector having a plurality of intersecting curved reflective surfaces include three intersecting curved reflective surfaces having three lines of intersection, each curved reflective surface defining an off-axis reflector segment has its focus disposed at an opposite side of the perimeter from the portion of the perimeter along which the curved reflective surface is disposed, for each of the plurality of intersecting curved reflective surfaces, a line connecting the reflector segment focus and the portion of the perimeter along which the curved reflective surface defining the reflector segment is disposed crosses passes over at least one other reflector segment, each off-axis reflector segment has its focus disposed at a perimeter of one or more other off-axis reflector segments.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anabel M. Ton whose telephone number is (571) 272-2382. The examiner can normally be reached on 08:00-16:30.

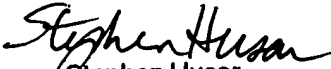
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anabel M Ton  
Examiner  
Art Unit 2875

AMT

  
Stephen Husar  
Primary Examiner